

What is Claimed is:

1. An arrangement for signal transmission between a transmitter and a control unit, in which the transmitter has an electronic circuit that can be connected to an electrical voltage source and, using electrical lines connected therewith can be connected with the voltage source and the control unit, and a metallic plate made of a material which is a good electrical conductor, which is associated with the circuit and acts as a sensor, **characterized in that**

the electronic circuit (11) is mounted in a moisture-tight manner in a plastic housing (G) into which the lines (13, 14) run in a moisture-tight manner, and

the plate (16) is arranged in an outwardly open cavity located in a wall of the housing (G) and is covered in a moisture-tight manner on its outward flat surface by a layer (18) of flexible insulating material, which fits against the plate (16) tightly and without any gaps.

2. An arrangement as claimed in claim 1, **characterized in that** the electronic circuit (11) is mounted on a printed circuit board.

3. An arrangement as claimed in claim 1, **characterized in that** the housing (G) comprises a box-like bottom part (8) and a cover (9) between which a circumferential seal (10) is disposed.

4. An arrangement as claimed in Claim 3, **characterized in that** the bottom part (8) has a recess in which a sealing element (15) is disposed which encloses the lines (13, 14) in a moisture-tight manner.

5. An arrangement as claimed in claim 1, **characterized in that** the wall of the housing (G) is perforated completely to form the cavity receiving the plate (16).